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S911 LOLA Operation Manual

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Release History

Revision	Date	Content
1.0	2012/07/18	It is an internal release
1.10	2012/09/09	It is a release for LocationNow Suite utility (Beta version)
1.20	2012/09/26	Add section 11 “Firmware Update”
1.30	2012/11/12	Add section 4.2 for installation of USB driver on Window 7 manually
1.40	2013/01/30	Revise all sections based on utility “**LocationNowSuite20130125**”
1.50	2013/04/28	Revise all sections based on utility “**LocationNowSuite20130426**” Add Appendix A “S911 LOLA’s working mode and its usage” V1.1

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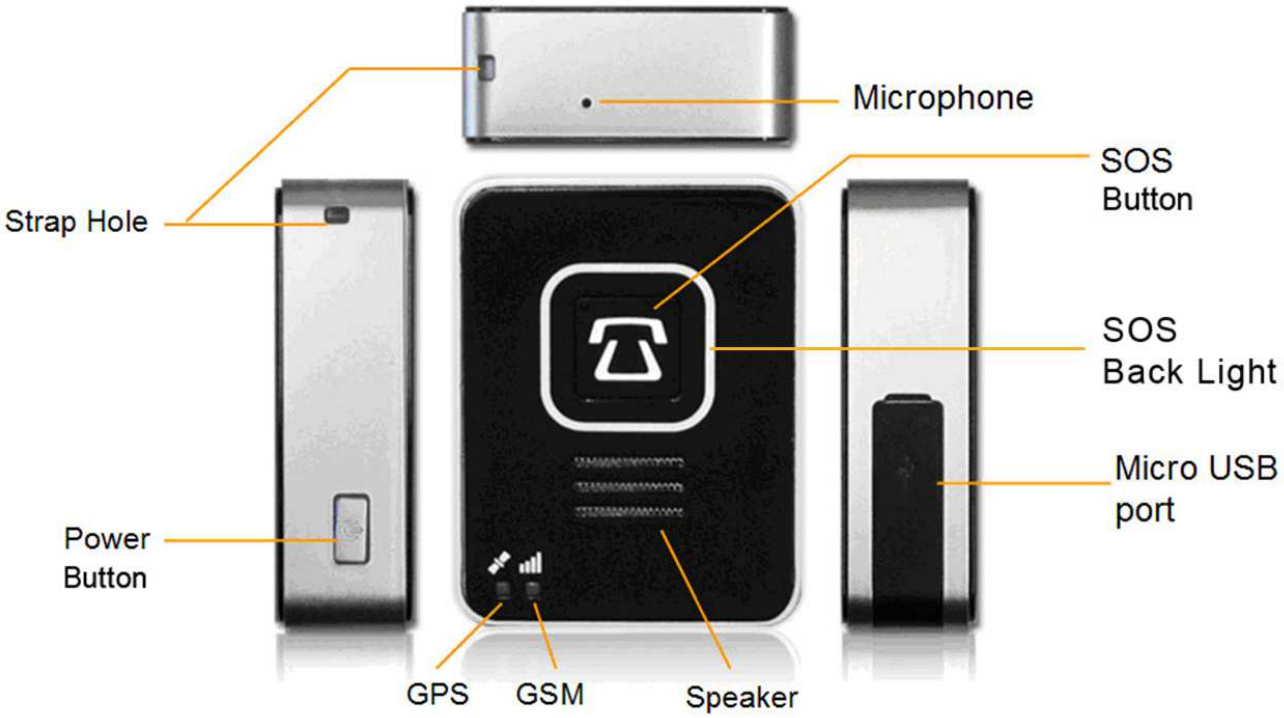
1. Knowing about your S911 LOLA

The drawing below shows the locations and names of the physical features with this product



Power Button: It is being used for turning on or off the S911 LOLA unit.

Turn On the unit: Press this button over 3 seconds, user should feel the vibration and observe flashing generated by the GPS indicator LED, GSM indicator LED and SOS button backlight LED

Turn Off the unit: Press this button over 3 seconds, GPS and GSM status indicator LEDs will be turned off, also, he can feel the vibration generated by the vibrator. After that, unit will enter into its Power-Down Mode.

SOS Button: It is being used to send SOS alert, pick up/hand up phone and checking unit's status

Send SOS alert: Press this button for over 3 seconds, if user can see the flashing generated by SOS button back light LED, it means this SOS request has been accepted and unit will activate its SOS alert action sequence

Pick up phone: When unit has incoming phone call, user can press this button to pick up the phone.

Hand up phone: During or after the phone call, user can press this button to hand up the phone

Checking status: Press this button, user can hear beeping. It can show user the working status of the major function part on this unit, such as GPS and GSM, refer to section 9 below.

Reset LOLA

User should not do this operation when LOLA is connected to computer.

To reset LOLA, user should press both "Power" and "SOS" button for 2 or 3 seconds, then, release them.

2. Getting Started

2.1 Setup Summary

The steps below outline what should be accomplished in order to operate LOLA. Detailed descriptions of these steps will be described in the following sections.

a. If LOLA has never been set up by using your computer

1. Install the valid SIM card
2. Charging the battery
3. Find a computer with Microsoft Windows O.S. and IE 8 supported by Adobe Flash Player 9.0 or above
4. Install the latest version of LocationNow Suite utility software
5. *****Complete pre-installation of USB driver on computer
6. Ensure LOLA is powered down, then, connect it to the computer
7. Install USB driver on computer
8. Disconnect LOLA with computer
9. Run utility
10. Ensure LOLA is powered down, then, connect it to the computer again
11. If the existing firmware does not meet the request of utility, update firmware
12. Configure the unit and save the settings to unit
13. Disconnect unit with computer
14. Reset the unit to have the device start working

b. If your computer has been used to set up LOLA before

In this case, user does not need to go through steps 5 to 8 for installation of USB driver.

Note:

***** If user's computer is with Windows XP, he must go through this process.

***** For computer being with Windows 7, if user fails to install Lola's USB driver by using auto-installation process, he need try this pre-installation also. Please find the detail in Section 4.2.

2.2 Requested by the set-up process

- PC running Windows O.S. and IE8/9 which being supported by Adobe Flash Player 9.0 or above
- An activated micro SIM card with the requested GSM/GPRS service plan
- Micro USB charging/programming Cable

2.3 SIM Card and its installation

To use LOLA, user should have a valid Micro SIM (Subscriber Identity Module) card (3V) which could be got from GSM Mobile phone carrier or his Location Based Service provider.

2.3.1 What is a valid Micro SIM card?

(1) First of all, this SIM card should be with Data Plan. Also it should already be successfully activated by the relative GSM Mobile phone carrier. To communicate with remote location based service platform through GSM/GPRS network, the following setting parameters should be coming with the SIM card

GPRS APN: The Access Point Name is used by your SIM card to connect to the GPRS network. The Access Point is the carrier's server through which the traffic becomes converted from GSM to GPRS Internet traffic.

GPRS APN User Name: The user name authorizes your SIM card to access your carrier's Access Point. It could be blank in most of case.

GPRS APN Password: The password authenticates your SIM card to access your carrier's Access Point. It could be blank in most of case.

(2) If user wants to use LOLA to send SMS alert message or make SOS phone call, this SIM card should be with correspondent Voice and SMS service plan and have been activated.

(3) Some users may try the SIM card being used on his Smart Phone, which being with DATA plan, on his LOLA. In certain case, this SIM card has been bounding to his Smart Phone so that it could not be used on LOLA.

(4) For user is using LocationNow.com service platform and in Canada or USA, he can select to use Laipac's SIM card.

2.3.2 Installation of the SIM Card

Following steps below, user can open SIM Card tray and install SIM Card into S911 LOLA.

A. Open SIM Card Rubber Cover

B. Insert the pin into the small hole

C. push it slightly until the tray pops-out

D. Now pull out the Sim card tray with your hands

2.4 Charging the Battery

Note:

To extend the battery life, when user first time uses LOLA, it is requested that he/she should not do battery charging until LOLA reminds user that battery is low with red LED flashing every 5s on the position of GSM indicator.

To do battery charging, user should use USB cable to connect the AC-DC adaptor and LOLA, as shown in the picture below. Then, plug the adaptor into a wall outlet.

How to speed up the battery charging process?

(1) Power on LOLA and wait it to enter into its working mode

(2) Connect LOLA with the charger and start to charging it

(3) Press "Power ON/OFF" button for a while, both GSM and GPS status indicator will be turn off and LOLA has been forced to enter into its Charging-Mode.

Under Charging-Mode, the Battery Status LED will continue to be solid RED. It will turn off when battery is fully charged. The whole charging process may last 3 to 4 hours.

3. Installation of Utility Software

3.1 Introduction to utility software

"**LocationNow Suite**" is a stand-alone utility software package for all of the major GPS tracking products from Laipac Technology Inc.

Mainly, "**LocationNow Suite**" is able to provide the two functions below
- Configuration
- Firmware Update

The computer, used for installing this utility, should be with
- Microsoft Windows 7 O.S. (recommended)
- IE8 or up browser, which being supported by Adobe Flash Player V9.0 or up

Adobe Flash Player V9.0 or up for Windows IE can be downloaded by using link below

http://get.adobe.com/flashplayer

3.2 How to get utility software

User can download this utility software by using the link below

http://www.laipac.com/lolaupdate.htm

This software package is a compressed file with suffix ".7z" or ".zip", such as, "**LocationNowSuite20130426.7z**"

Decompress it to get the executable program "**LocationNowSuite20130426.exe**"

3.3 Installation of utility software

Run "**LocationNowSuite20130426.exe**".

Follow "Setup Wizard" instruction, click "Next", step by step, user can complete the installation of this utility software.

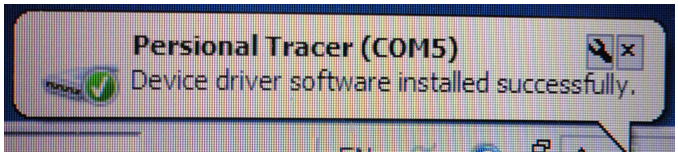
4. Installation of USB driver

4.1 Installing USB driver on PC with Windows 7 (Automatically)

(1) Ensure LOLA is powered down, then

(2) Connect LOLA to computer through the USB cable coming with LOLA.

In most of case, If PC screen's bottom right corner displays hint bubble below



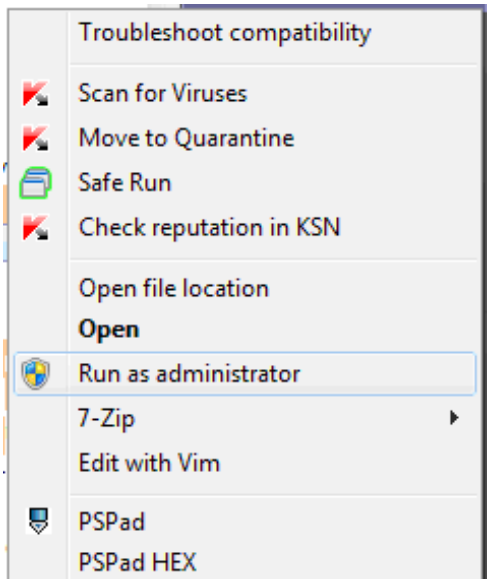
It means LOLA's USB driver has been installed successfully. Depending on computer, it may appear other COM Port number here rather than COM5, such as, COM 6, COM 9, …

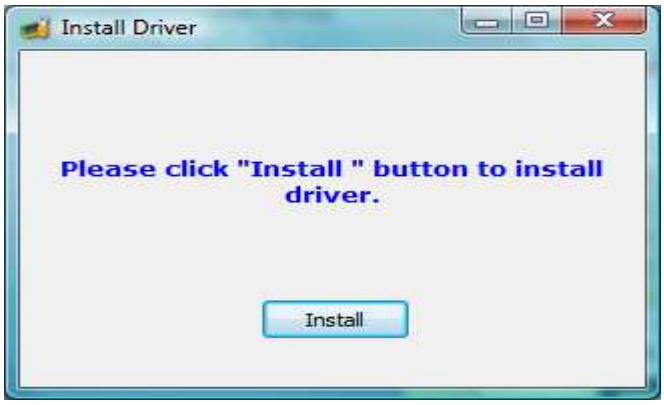
Note:
If user is not able to complete the installation of this driver successfully, he may try to install it manually by referring to section 4.2.

4.2 Installing USB driver on PC with Windows 7 (Manually)

4.2.1 Pre-installation

Go to Start →All Program→ LocationNow Suite → Install Driver, then, right click to get menu below → select **"Run as administrator"**





Click "**Install**"

Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details

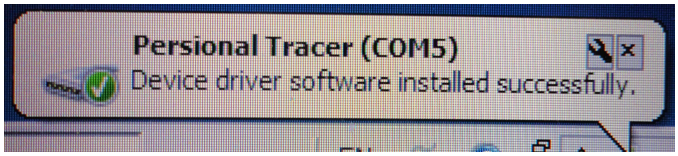
Select "**Install this driver software anyway**"

4.2.2 Installation of USB driver

(1) Ensure LOLA is powered down, then

(2) Connect LOLA to computer through the USB cable coming with LOLA

If PC screen's bottom right corner displays hint bubble below, it means LOLA's USB driver has been installed successfully. Depending on computer, it may appear other COM Port number here rather than COM5, such as, COM 6, COM 9, …



4.3 Installing USB driver on PC with Windows XP

4.3.1 Pre-installation

Go to Start →All Program→ LocationNow Suite → Install Driver

Click "Install", then close the installation menu to complete pre-installation

4.3.2 Installation of USB driver

(1) Ensure LOLA is powered down, then

(2) Connect LOLA to computer through the USB cable coming with LOLA

If you get a "Found New Hardware" message, click the "*Yes, this time only*" then click "*Next*". This is for the configuration of the USB interface.

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
Windows will search for current and updated software by looking on your computer, on the hardware installation CD, or on the Windows Update Web site (with your permission).
Read our privacy policy
Can Windows connect to Windows Update to search for software?
Yes, this time only
Yes, now and every time I connect a device
No, not this time
Click Next to continue.
< Back
Next >
Cancel

If the Wizard appears again select "*Install the software automatically*" then click "*Next*". This is for the configuration of the virtual COM port.

Found New Hardware Wizard
This wizard helps you install software for:
S911 USB Composite Device
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

The device will be detected and will come up with another Windows digital signing warning message just click "*Continue Anyway*" then click "*Finish*".

5. How to start configuration of your LOLA

5.1 Enter into utility

There are 2 ways below to enter into LocationNow Suite utility's platform menu, see Fig. 5.1

a. Double click icon "LocationNow Suite" on PC's desktop, or

b. Go to Windows' Start → All Programs → LocationNow Suite → LocationNow Suite

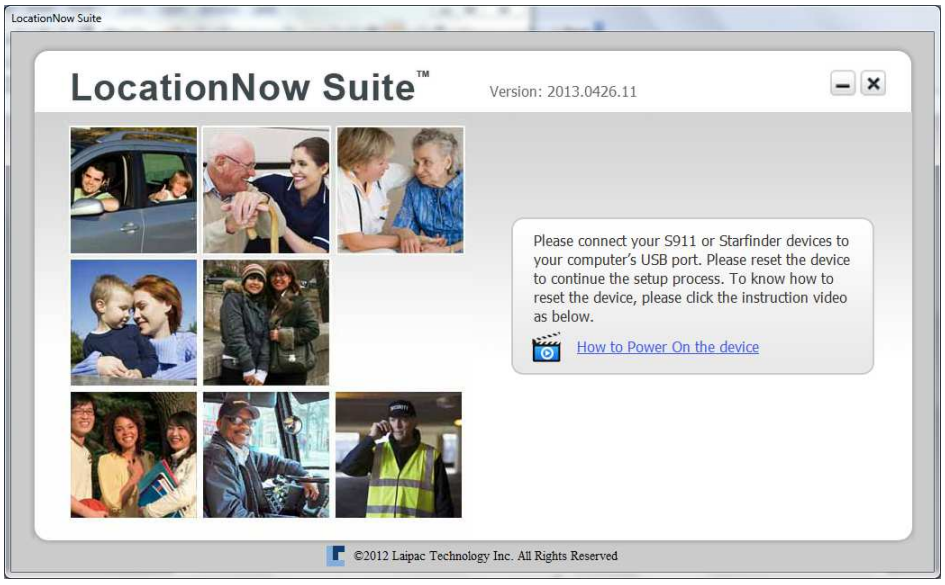

LocationNow Suite
LocationNow Suite™
Version: 2013.0426.11
Please connect your S911 or Starfinder devices to your computer's USB port. Please reset the device to continue the setup process. To know how to reset the device, please click the instruction video as below.
How to Power On the device
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Fig. 5.1

5.2 Action on LOLA

(1) Ensure your LOLA is powered off.

(2) Connect unit to PC by using micro USB cable, then, turn on the unit. If connection is successful, user should see Fig. 5.2-1

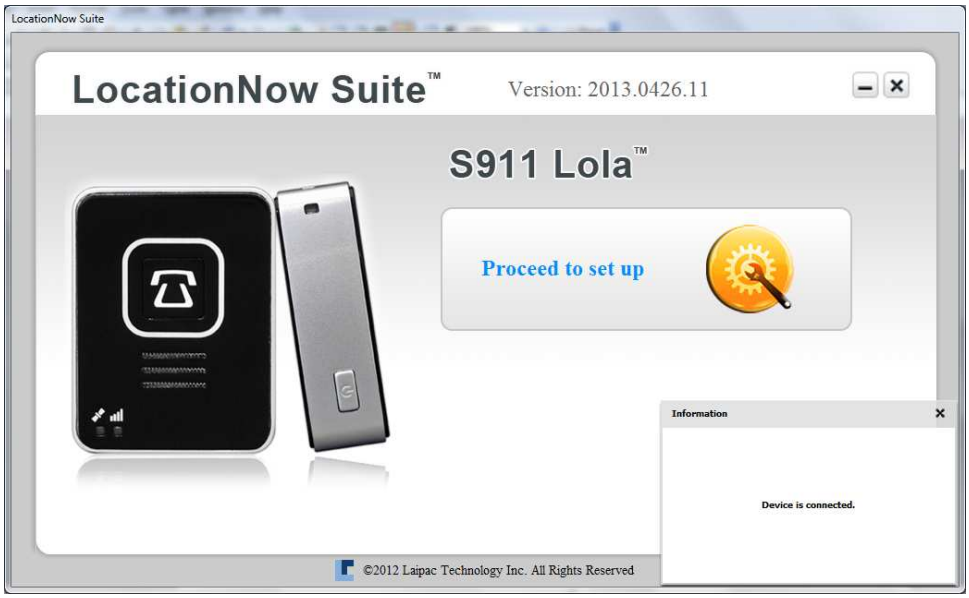


Fig. 5.2-1

5.3 The first glance at LocationNow Suite utility

(1) User can click **"Proceed to set up"** button, or wait while, automatically, user will be brought into utility's **Network** operation interface below.

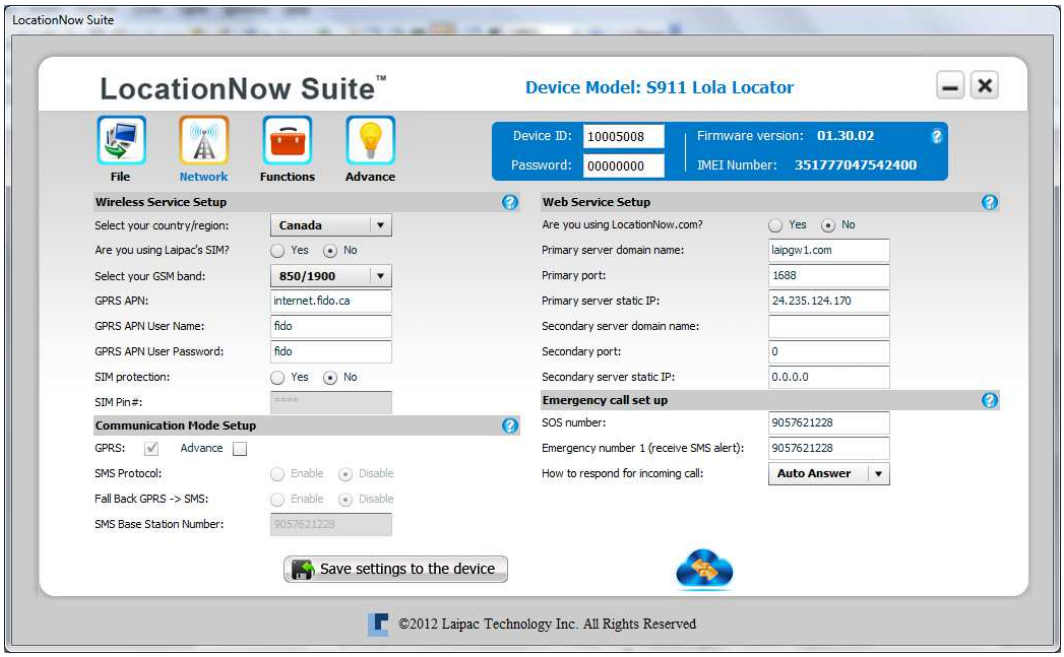


Fig. 5.2-2

(2) Utility will read the existing configuration from the connected LOLA automatically.

(3) If LOLA is never been configured before, utility will use its default setting to fill in all those item requested by this utility. For default setting, refer to section 5 to7

(4) There are 4 kinds of operation menus coming with this utility, they are

- **File**
- **Network**
- **Functions**
- **Advance**

The following sections will tell user how to set up his LOLA by using these 4 menus

(5) On the bottom of those interfaces, there are 2 buttons

This button can be used to retrieve the existing configuration from LOLA to utility

User can use this button to save utility's current setting into the LOLA

Note:

After user saves the setting into his LOLA, user should disconnect LOLA with computer, then, reset LOLA. After LOLA is able to recognize its SIM card, this setting will replace the previous one.

6. An example of configuring LOLA

6.1 Request from LOLA's user

(1) Where is this user?
It is provided this user is in Canada.

(2) What kind of SIM card is being used by this user?
He is using a SIM card with both Voice and Data plan from GSM/GPRS service provider, Fido. The GPRS APN parameters of this SIM card are below

GPRS APN: internet.fido.ca
GPRS APN User Name: fido
GPRS APN Password: fido

(3) What service platform has been selected by him?
He has selected **LocationNow.com**, which is from Laipac Technology Inc, but he is not using the SIM card provided by Laipac. For user being in USA and Canada, he could select to use Laipac's SIM card.

(4) What are those key setting items related to the service platform and LOLA?
The following settings are related to the service platform, **LocationNow.com**

Device ID: When user opens his account on this service platform, he should be assigned a unique **Device ID** for his LOLA.
Password: Also, he should set up a **Password** under his account.

Besides Device ID and Password, the settings below also should be set up on his LOLA.

Primary server domain name: This is the domain name of the remote server. For www.LocationNow.com, use **'laipgw1.com'**.

Primary Port: This is the Port used by the remote server with **Primary server domain name.** For www.LocationNow.com , it should be **'1688'**.

(5) How to report his real time position?

It is provided that he acquires his real time position information by using two kinds of reporting mechanisms. They are report interval
(a) **By Time:** 30 min
(b) **By Distance**: 20 Km

(6) Other services are being requested by this user

SOS phone call: When user presses SOS button, LOLA can make a phone call by using the SOS phone No. setting. To have this function, LOLA should have valid Voice service plan.

SOS SMS Alert: When user presses SOS button, LOLA can send a SMS alert message by using the Emergency phone No. 1 setting. To have this function, LOLA should have valid SMS plan.

6.2 Configuration on user's LOLA

Fig. 6.2-1 to Fig. 6.2-3 shows user all those necessary setting items have been set up on utility's 3 different operation menus below.

User can click button to save the current settings into LOLA. Disconnect the USB cable with computer and reset LOLA to force it enter into its Working Mode.

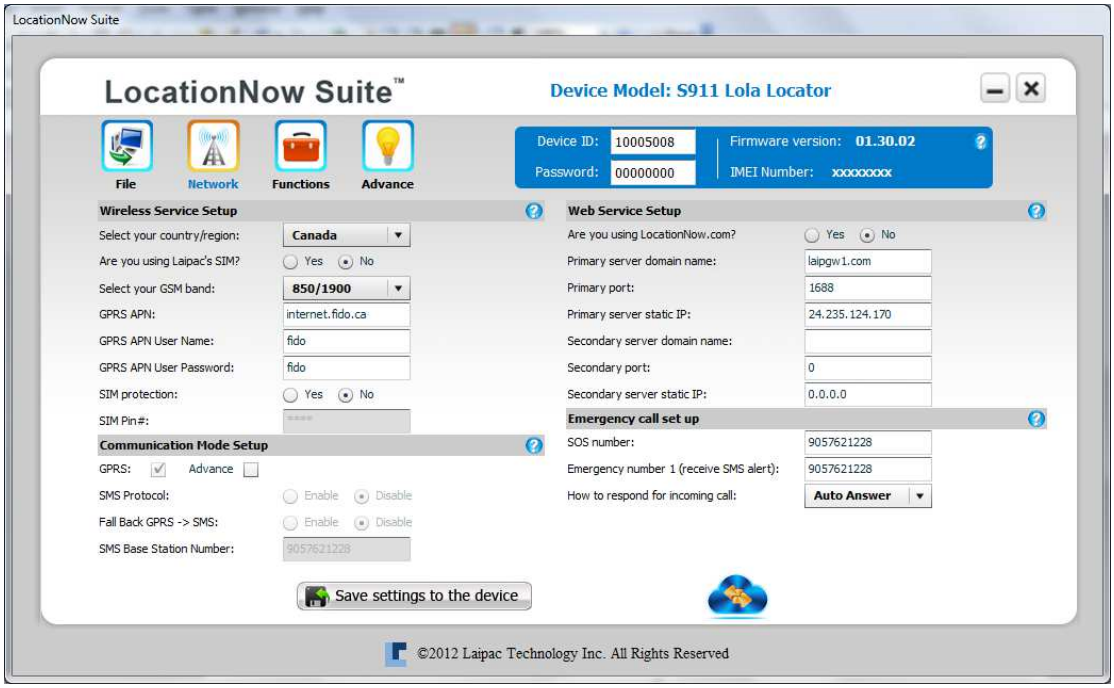


Fig. 6.2-1 Setting of Network menu

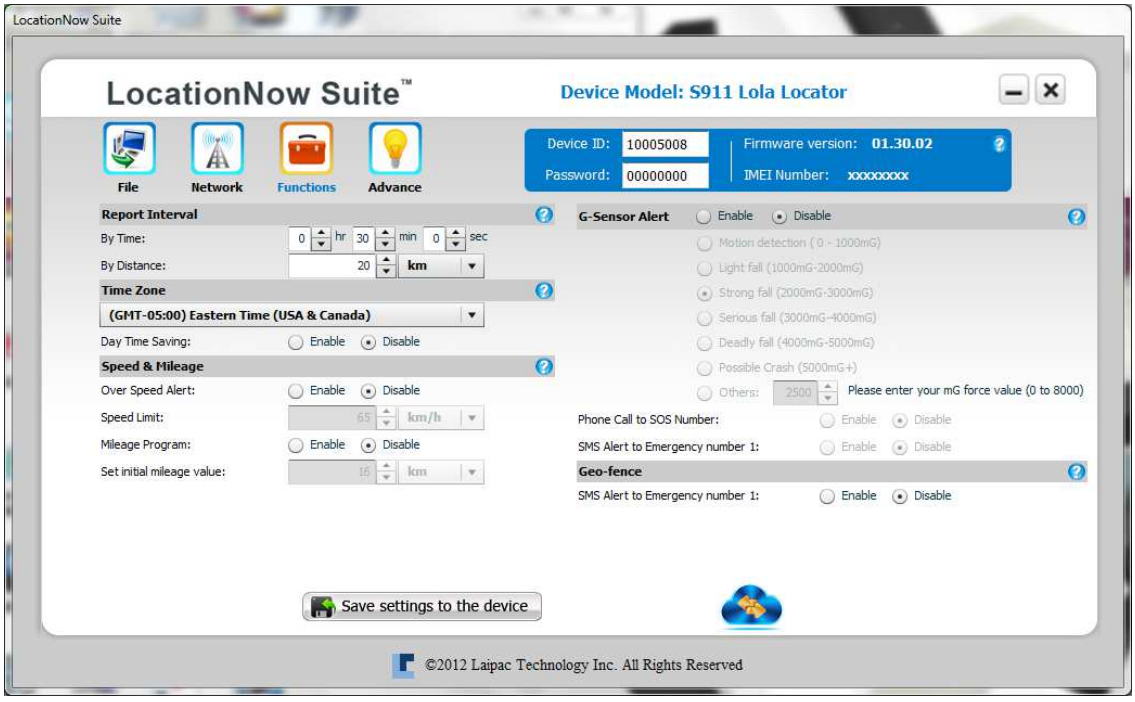


Fig. 6.2-2 Setting of Functions menu

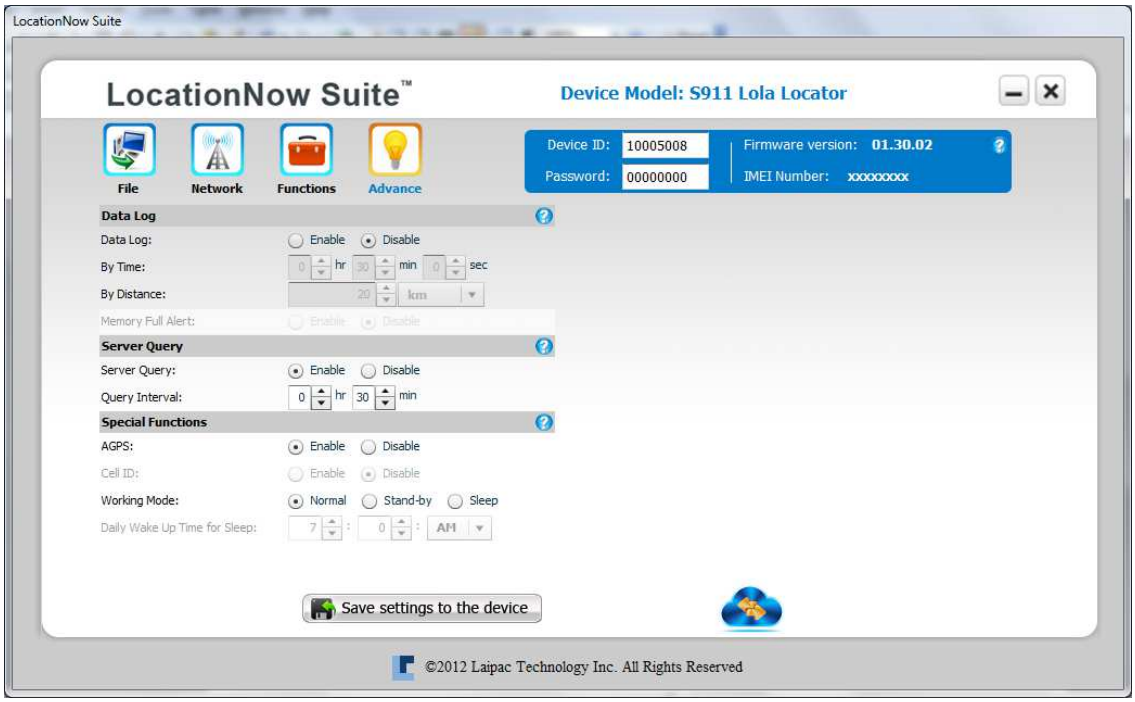


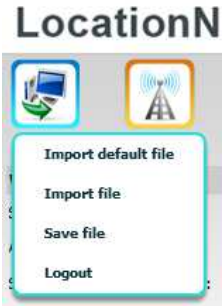
Fig. 6.2-3 Setting of Advance menu

7. Knowing more about the utility and LOLA

7.1 File operation menu

Click

icon, user can enter into "**File Operation Menu**", which consist of a pull down menu with 4 kinds of selectable function shown in drawing below

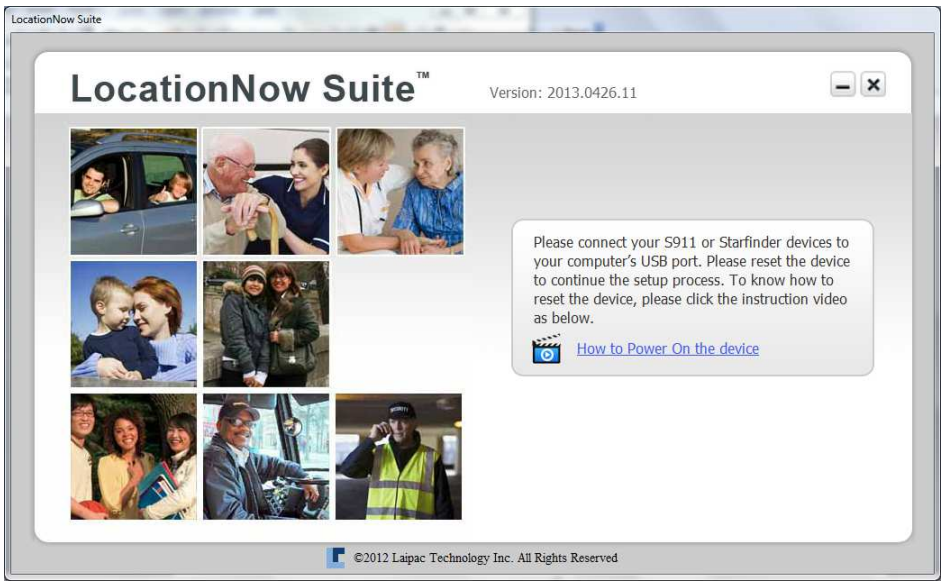


7.1.1 Import default file

Select **"Import default file",** utility will remove all those setting items which may be read back from LOLA, or edited/created by user and leave them as blank or disable items.

7.1.2 Logout

Select "Logout", utility will go back to its cover menu.


LocationNow Suite
LocationNow Suite™
Version: 2013.0426.11
Please connect your S911 or Starfinder devices to your computer's USB port. Please reset the device to continue the setup process. To know how to reset the device, please click the instruction video as below.
How to Power On the device
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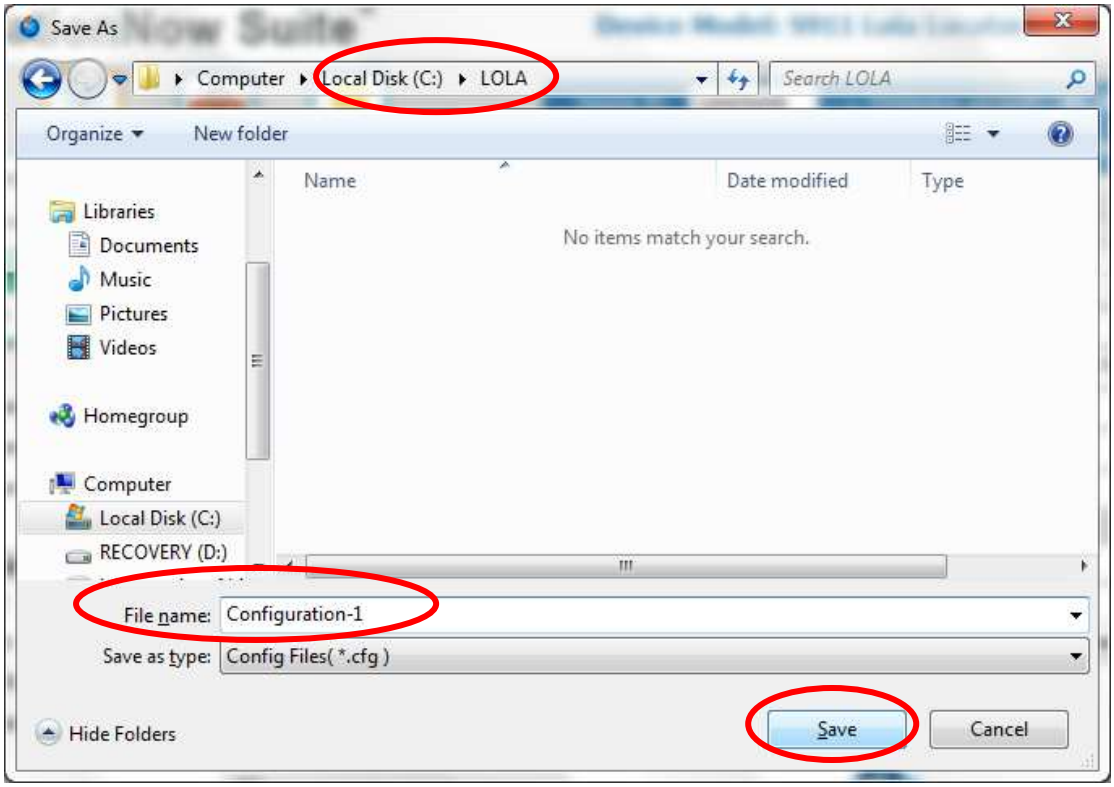
7.1.3 Save file

User can use this function to save the utility's setting to a file under his selected folder on disk.

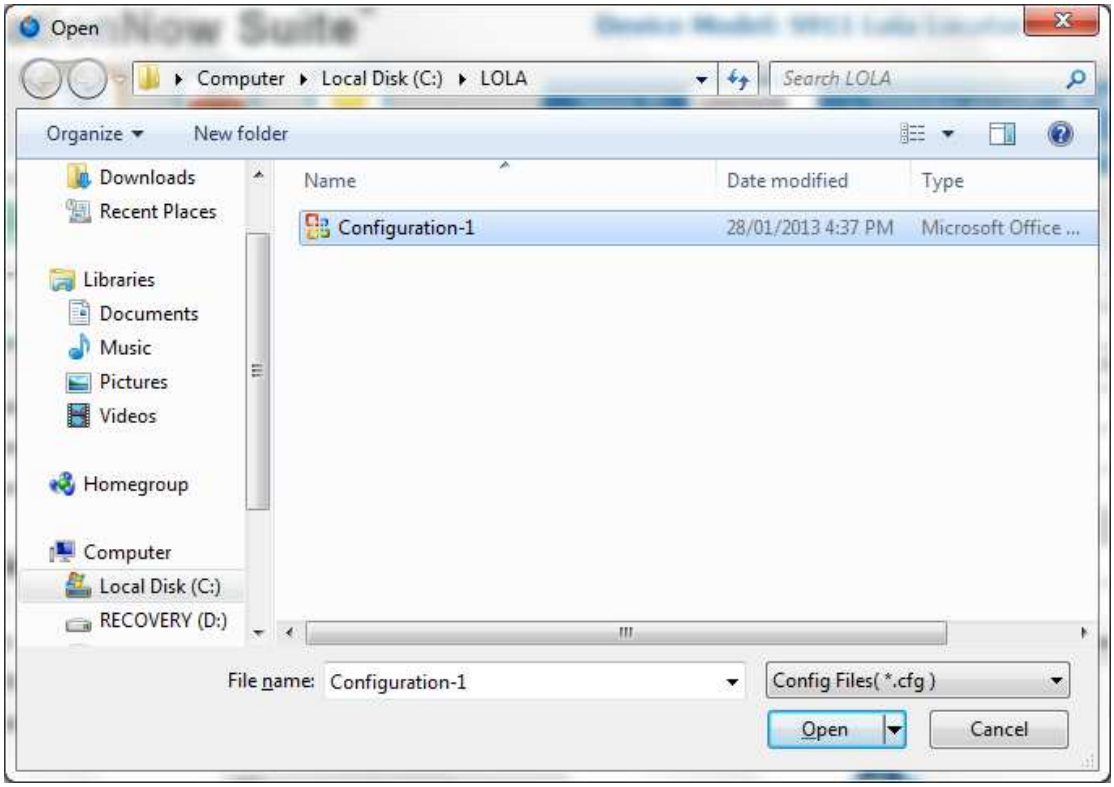
(1) Select "**Save file**" and use the windows' file browser to find the folder, here, it is **C:/LOLA**
(2) Type in the file name, such as, "**Configuration-1**", in "**File name**" block, then, click "**Save**"
(3) Now, a file, namely, "Configuration-1.cfg" has been created under the folder **C:/LOLA**



7.1.4 Import file

It is provided that there is a desired LOLA's configuration file, "Configuration-1.cfg", on user's computer. It is under folder C:\ LOLA, user can follow the steps below to load this file into LocationNowSuite utility.

(1) Select "Import file"
(2) Using Windows file browser to locate this file



(3) Then, click "**Open**", the settings, included in this file, will be brought into utility.

Note:

The functions of "Save file" and "Import file" provide a very efficiency way for user

(a) to generate a configuration his own LOLA quickly, it is based on one set of configuration which is working on other LOLA unit and only make necessary change, such as Device ID, …
(b) to set up volume of LOLA units quickly

7.2 Network operation menu

Click Network icon, user can enter into **Network** operation menu

7.2.1 Wireless Service Setup

Select your country/region:

The selection of this item can help utility to set up DST, APN parameters as well as other settings

Are you using Laipac's SIM ?

If user select "Yes", according to selection of "country/region", utility is able to complete all those left items requested by "**Wireless Service Setup**". Here is an example, user is in USA, after he selects "Yes", utility has completed all other settings.

At present, only in USA and Canada, User can select to use Laipac's SIM card.

If user selects "No", he will be in charge of filling in the left items requested by "**Wireless Service Setup**". Such as, a Canadian user is using a SIM card from a local GSM/GPRS service provider, Fido

GPRS APN: The Access Point Name is used by your SIM card to connect to the GPRS network. The Access Point is the carrier's server through which the traffic becomes converted from GSM to GPRS Internet traffic.

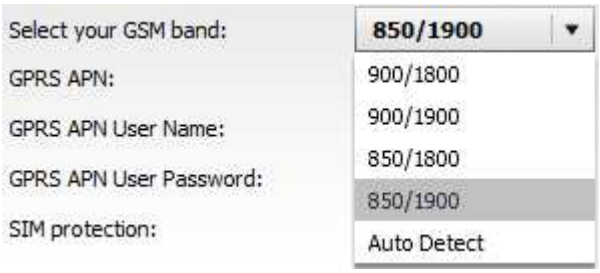
GPRS APN User Name: The user name authorizes your SIM card to access your carrier's Access Point. It could be blank in most of case.

GPRS APN Password: The password authenticates your SIM card to access your carrier's Access Point. It could be blank in most of case.

SIM protection: If the SIM card is coming with protection mechanism, it is decided by SIM card provider rather than LOLA's user himself. Please find the answer from SIM card provider.

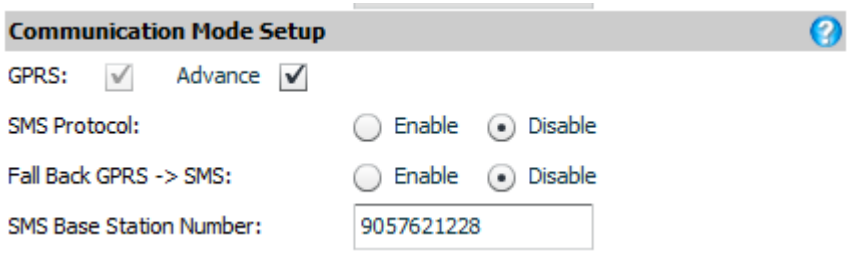
SIM Pin #: When SIM card is with protection, this is the field to enter the valid PIN code.

How to select the GSM band?



(1) User should check with his SIM card provider as well the relative GSM/GPRS network service provider to know which band is being used.
(2) From the pull down menu shown above, he can select the correct band
(3) If **Auto Detect** is selected, device may take longer time to access GSM/GPRS network than using a correct selection of a specific band

7.2.2 Communication Mode Setup



GPRS: As default, General Packet Radio Service (GPRS) has been selected as the primary channel for LOLA to communicate with the remote LBS service platform, such as, LocationNow.com

Advance: Only when it is checked out, user can configure the setting items below

SMS protocol: Short Message Service (SMS) is defined as a back-up communication channel, if it is enabled, LOLA is capable of using Fall Back mechanism to send its messages to another SMS device with **SMS Base Station No**

Fall Back GPRS→SMS: If it is enabled, LOLA is able to send its waypoint/alert message through SMS channel when it is in some area without GPRS network coverage

SMS Base Station No.: This No. can be a cellular phone number or a number for some cellular modem related to some LBS service platform based on SMS channel.

7.2.3 Web Service Setup

Are you using LocationNow.com?

If user selects "Yes", utility will complete this Web Service Setup automatically as below

If user selects "No", he should configure those setting items properly in order to access his desired LBS service platform.

Primary server domain name: This is the domain name of primary server. For www.LocationNow.com, it is **'laipgw1.com'**.

Primary port: This is the Port used by the primary server. For www.LocationNow.com , it is **'1688'**.

Primary server static IP: The primary server's static IP address that will accept the transmissions when Primary server domain name become inaccessible.

Secondary server domain name: This is the domain name of secondary server.

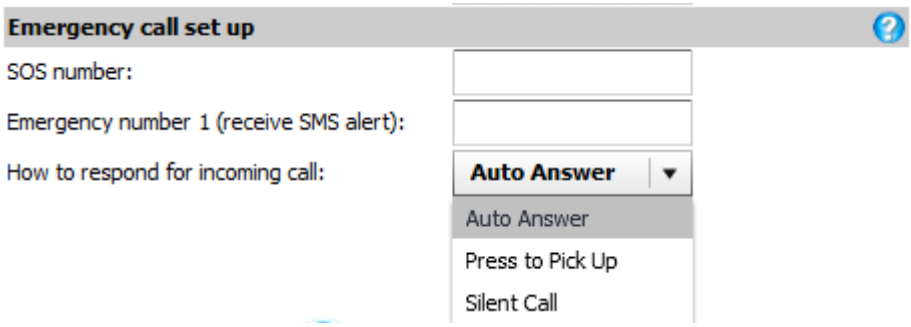
Secondary port: This is the Port used by the secondary server.

Secondary server static IP: The secondary server's static IP address

How does LOLA develop TCP/IP connection with remote LBS service platform?

When LOLA develops TCP/IP connection with remote LBS service platform, it will try Primary server static IP first, Primary server domain name second, Secondary server static IP third, Secondary server domain name fourth. If none of them works, LOLA will re-attempt this connection sequence repeatedly.

7.2.4 Emergency Call Setup



SOS number: When user presses "SOS" button, the following actions will be executed.

a. Send SOS alert message to remote server.
b. Send a SMS message to phone with Emergency No. 1
c. Dial the phone with SOS number

Emergency No. 1: It is being used for unit to send SMS message when user presses "SOS" button. Also, if the following 2 functions items are enabled by utility, unit will send the relative alert SMS messages with Emergency No.1 when any of them are triggered.

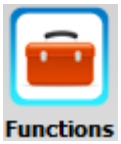
a. G-sensor Alert
b. Geo-fence Alert

How to respond to incoming call:

There are 3 kinds of way to answer the incoming call on LOLA, user can select one of them from the pull down menu.

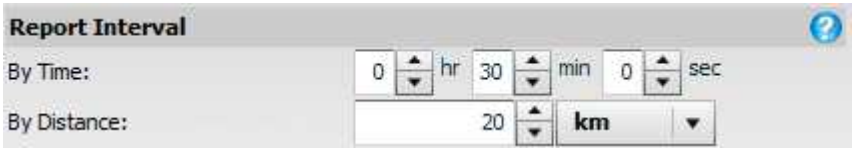
Auto Answer: LOLA will pick up this phone call without pressing any button
Press to Pick Up: User should press "SOS" button to pick up the incoming call
Silent Call: LOLA does not generate ring when it receives incoming call

7.3 Function operation menu



Click Functions icon, user can enter into **Function** operation menu

7.3.1 Report Interval



By Time: This is a user defined value to determine how often the LOLA will report its position using time.

By Distance: This is a user defined value to determine how far the LOLA will report using distance. The options for distance are Kilometers, Meters, Miles, or Yards.

7.3.2 Time Zone

Time Zone: It is a drop down menu allowing the user to select their time zone in GMT.

Day Time Saving: The option to enable or disable the ability to setup when daylight savings occurs

7.3.3 Speed & Mileage

Over Speed Alert: Provides the option to enable or disable the setup of speed limit notification alerting. This alert is sent to the GPRS server.

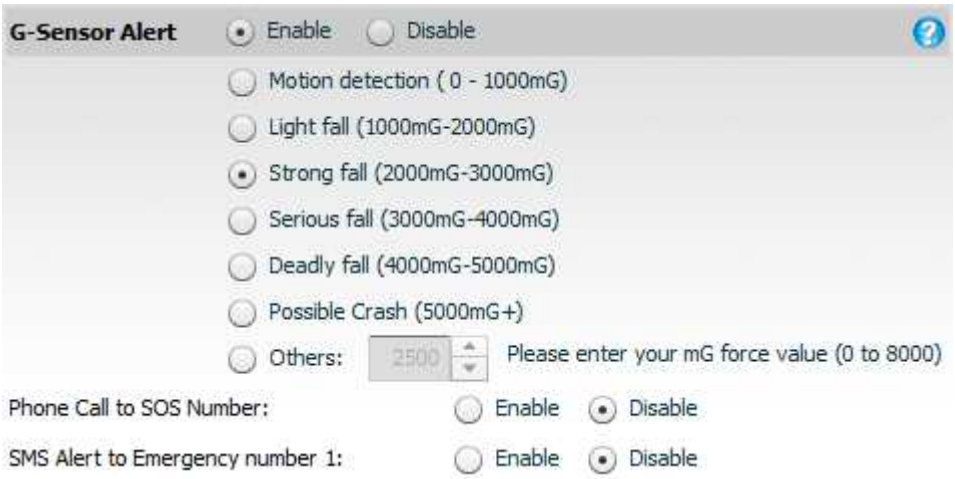
Speed Limit: It is a user defined value of what speed limit should be set. The unit can be selected as Kilometers, Meters, Miles, or Yards.

Mileage Program: Provides the option to enable or disable the setup of mileage accumulation. Basically when the LOLA user moves, the mileage will record how far the LOLA has been moving and send it to server.

Set initial mileage value: The user defined mileage accumulator's start point in kilometers, meters, miles, or yards.

7.3.4 G-Sensor Alert

By using an internal motion sensor (G-sensor), LOLA is able to sense a strong impact hit or drop hit on itself and send an alert message to remote server and SMS devices.



G-sensor Alert: User can enable or disable this function

G-sensor Trigger Value: User can set up a threshold value for motion sensor to detect the level caused by the hits. The level range is defined as 0 to 8000mG, as default, it is 2500mG.

Phone Call to SOS Number If user enables both **G-sensor Alert** and this item, when alert generates, Bracelet will send an alert message to remote server first, send a SMS message to SMS device with Emergency No.1 second, then, dial SOS number to make a phone call

SMS Alert to Emergency No.1 If user enables this item, when alert generates, besides sending an alert message to remote server, it will also send a SMS message to SMS device with Emergency No.1

7.3.5 Geo-fence

Geo fence Alert is a very useful function provided by LOLA. By means of remote server, such as LocationNow.com, user can set up a specified area on electronic map, such as, Google Map. When user, carrying with LOLA, enters or exits this specified area, LOLA will send a Geo-fence alert message to remote server and a SMS device.

Send Alert to Emergency #1: If user enables this item, when geo-fence alert generates, besides sending an alert message to remote server, it will also send a SMS message to SMS device with Emergency No.1

7.4 Advance operation menu

Click Advance icon, user can enter into **Advance** operation menu.

7.4.1 Data Log

Data Log function is for passive tracking applications and the waypoint/event message can only be extracted by remote server through the commands outlined in our protocol. This feature is mainly for server development purpose and not recommended for any real time application.

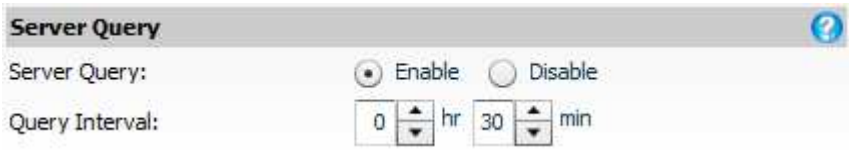
Data Lop: User can enable or disable this function

By Time: This is a user defined value to determine how often the LOLA will log waypoint/event messages using time.

By Distance: This is a user defined value to determine how often the LOLA will log waypoint/event messages using distance. The options for distance are Kilometers, Meters, Miles, or Yards.

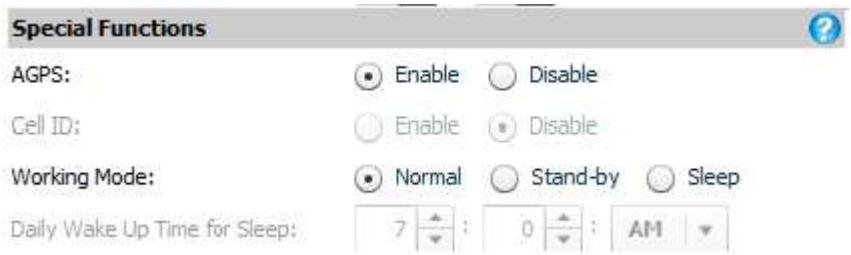
Memory Full Alert: LOLA is capable of storing xxxx waypoint/event messages and once reaches xxxx, the data logger memory full alert will be sent to the GPRS server. LOLA continues to log data, it will start writing over the oldest logged waypoints/events. User can enable and disable this function.

7.4.2 Server Query



After LOLA develops the connection with remote server, if there is data transmission between server and LOLA for certain time, the GSM/GPRS network service provider may shut down this connection being used now. To avoid this happening, periodically, LOLA will send some special message to server in order to keep this connection alive. If server does not respond to the inquiring message sent by LOLA, LOLA will try to redevelop connection with remote server. The process mentioned above is called **Serve Query**.

7.4.3 Special Function



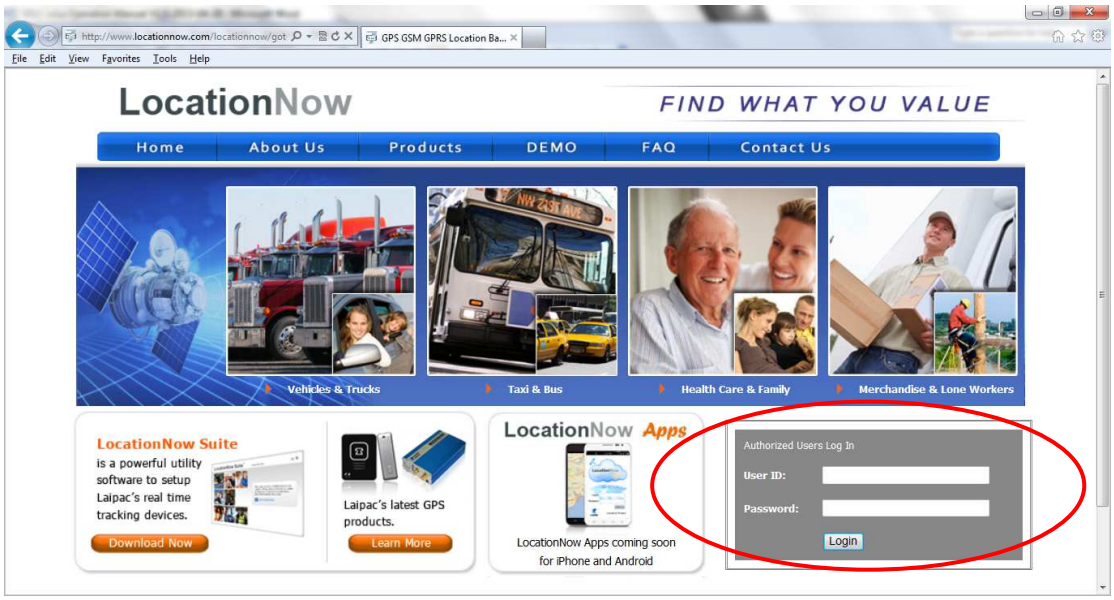
AGPS Namely, **Assisted GPS**, is a system that can under certain conditions improve the startup performance, or time-to-first-fix (TTFF), of a GPS satellite-based positioning system. LOLA is capable of providing AGPS service if user enables it.

Cell ID This function is reserved by Laipac

Working Mode LOLA is able to work under 3 kinds of mode, user can select its working mode here and set up the relative parameters. For detail, user can refer to Appendix A section 2

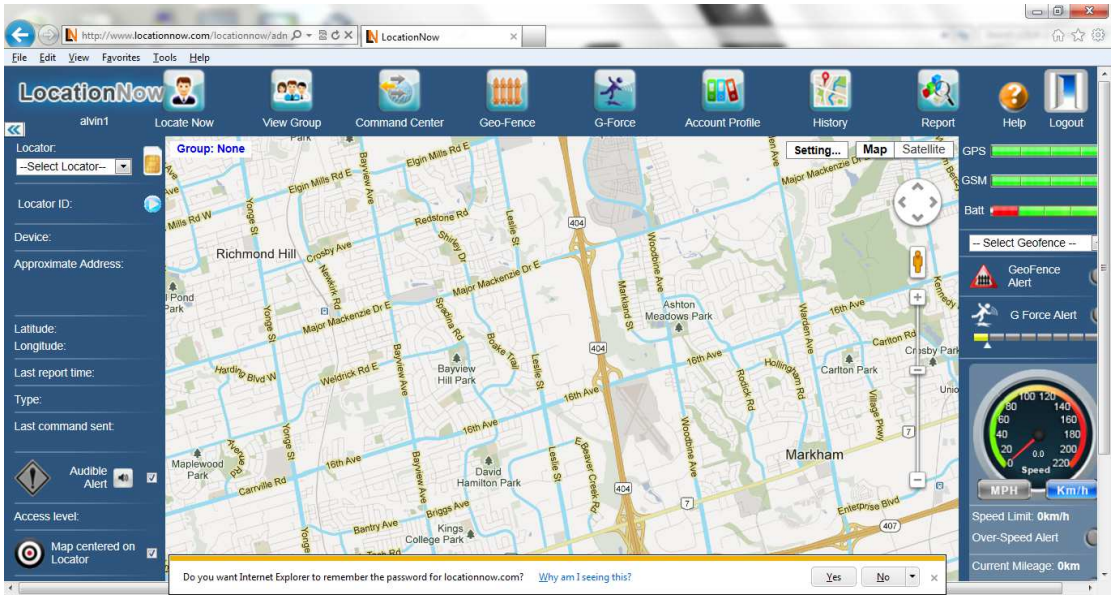
8. Go to LocationNow.com

User could experience the location based service, coming with S911 LOLA, by using Microsoft IE 9.0 to access LocationNow service platform. Its link is http://www.locationnow.com/locationnow/



Input your authorized login User ID and Password here, then, click "Login"

Note:
Consulting with Sales Department of Laipac Technology Inc. for having service of LocationNow.com



8.1 Device ID, Password and Locator Name

After registering the service of LocatioNow.com, user will get a set of unique Device ID, Password and a default Locator Name for his LOLA.

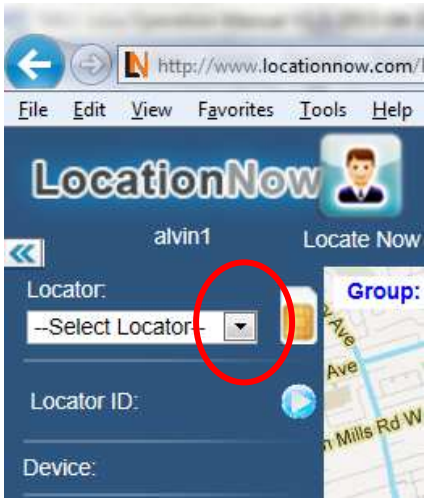
Such as, one LOLA's device ID is **10005008.** Password is **99999999** and its default name is **People14163543**

Device ID and Password are used to communicate with user's LOLA.

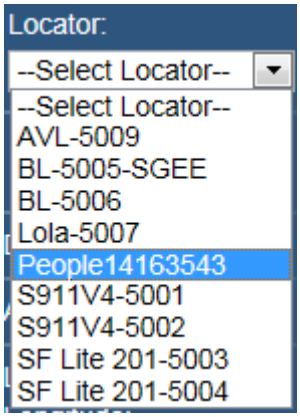
Locator Name is used for user to access the service, which is provided by LocationNow.com platform and targeted to user's LOLA.

Locator Name can be changed by user. The procedure is below

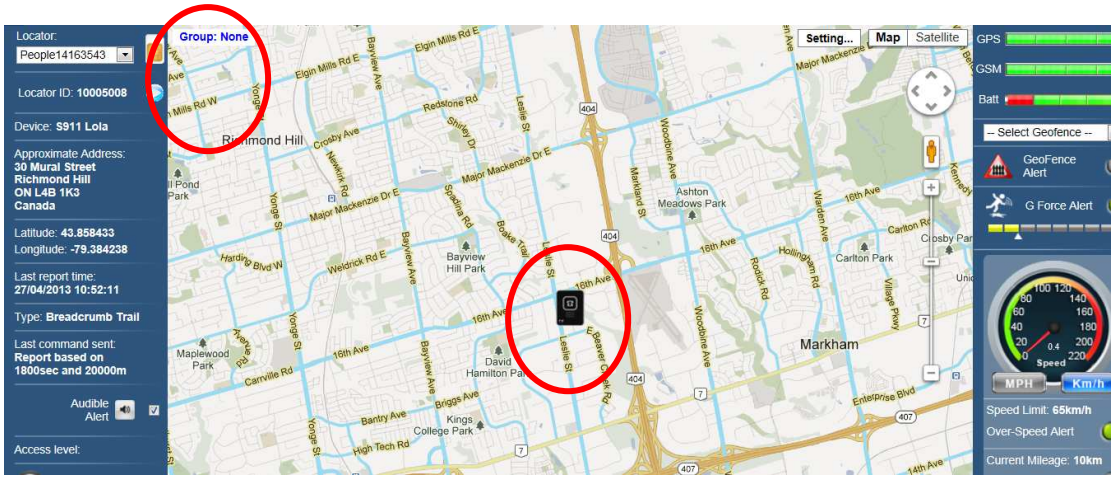
(1) Move mouse to point to top-left corner, then, select and click the button



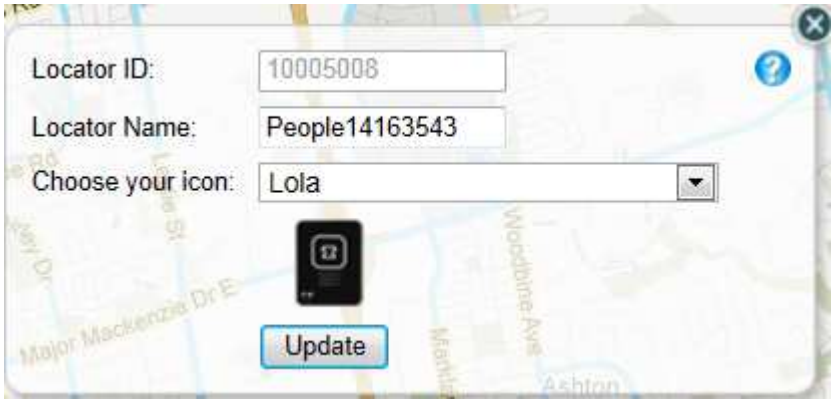
(2) From the pull-down device list, select and click the Locator Name of user's LOLA, here, it is **People14163543**



(3) Find the user's LOLA icon. It could be either in the center or the top left, under the indicator "**Group …**", of the Map area



(4) Move mouse to point to and click LOLA icon

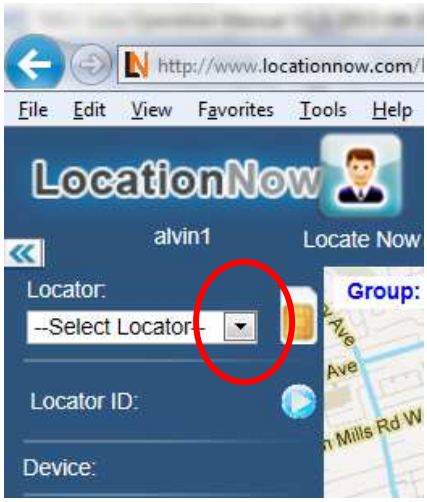


(5) User can change the content of item Locator Name and click "**Update**" button to have a new Locator Name for his LOLA. Such as, "LOLA-5008" has been entered as a new Locator Name for this LOLA here.

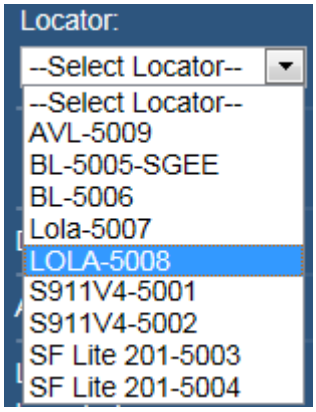
(6) During operation above, user can click button to stop this procedure at any time.

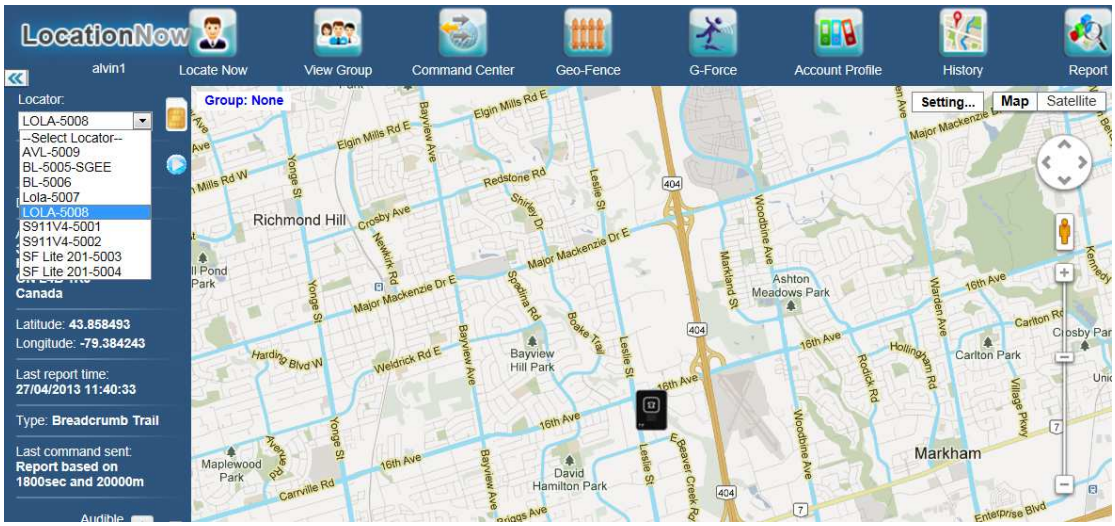
8.2 Request your LOLA's last position

(1) Move mouse to point to top-left corner, then, select and click the button



(2) From the pull-down device list, select and click the Locator Name of user's LOLA, here, it is **LOLA-5008.** Now, user should find the last position of your LOLA on the Map.



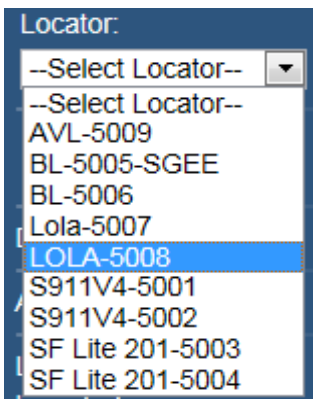


Note:
Last position of your LOLA is different with its **Current position**, refer to section 8.3.
It tells user when the last uploading report from LOLA, if its position is available from this report, user is able to see LOLA's icon in Map area.

8.3 Request your LOLA's current position

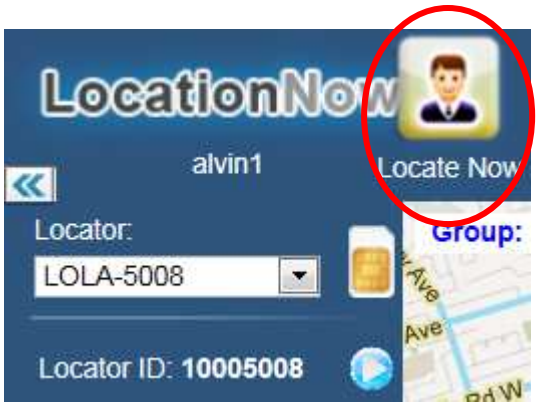
(1) Move mouse to point to top-left corner, then, select and click the button

(2) From the pull-down device list, select and click the Locator Name of user's LOLA, here, it is **LOLA-5008.** Now, user should find the last position of your LOLA on the Map.



(3) Check the following indicator bars on top-right corner, if they are shown as below, it means the LOLA, targeted by user, is likely connected to the server now.

(4) Move mouse to point to top-left corner, then, select and click the icon "**Locate Now**"



(4) On the bottom left corner, an indication bar, as below, should appear. It tells that user's LOLA is being asked to upload its position data to LocationNow server.

(a) If user sees the indicator bar shown as below, it means, the targeted device has uploaded its current position data to server successfully. User should find this LOLA sit in the correspondent place of the Map area.

(b) If user sees the pop-up window as below in central part of Map, it means that this request uploading process is not successful. User may try step (4) again.

Note:

If user continues to fail this operation, it means that the targeted LOLA may have been off-line without informing the LocationNow Server.

9. LED indicator, vibrator and unit's working status

Item	GPS LED	GSM LED	SOS Back light LED	Vibrator	Operation or unit's working mode
1			White LED on		Insert USB cable and unit is being charged
2	White LED flashing	White LED flashing	White LED flashing	vibration	Press "Power" button to turn on the unit
3	LED turn off	LED turn off	LED turn off	vibration	Press "Power" button to turn off the unit
4		White LED flashes periodically, every 5s			unit is under its normal working status
5		White LED flashes every 5s Red LED flashes every 5s			1.unit is under its normal working status 2.It battery voltage is low
6*	White LED is flashing	White LED is flashing			Press "SOS" button to check unit's status 1. unit's position is not fixed yet 2. Unit has not registered on GSM
7*	White LED is on	White LED is flashing			Press "SOS" button to check unit's status 3. unit's position is fixed 4. Unit has not registered on GSM
8*	White LED is on	White LED is on			Press "SOS" button to check unit's status 5. unit's position is fixed 6. Unit has registered on GSM network
9*	White LED is flashing	White LED is on			Press "SOS" button to check unit's status 7. unit's position is not fixed 8. Unit has registered on GSM net work

***Note:**

For Item 6 to 9, if it is also with GSM red LED flashing, it means that unit's battery is low.

10 Firmware Update

This section introduces how to use LocationNow Suite to update LOLA's application firmware.

10.1 Get new LOLA application firmware

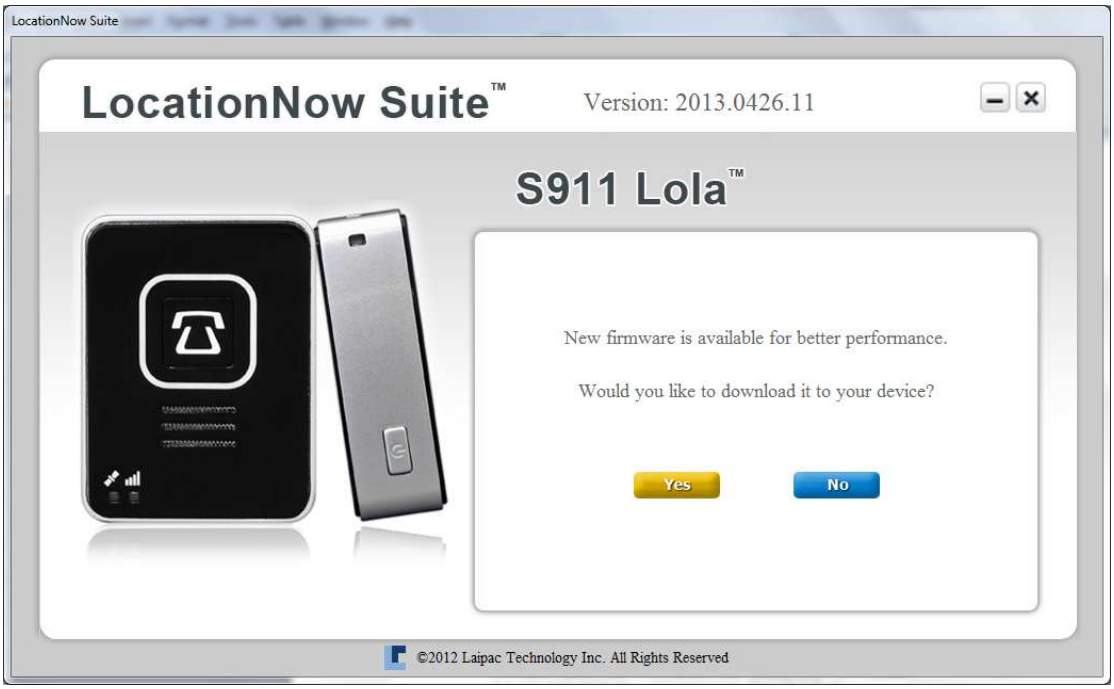
(1) Please check the web page "LOLA Update" by using link below and the Release Note of LOLA's application firmware. New firmware is always coming with the new released utility.

http://www.laipac.com/lolaupdate.htm

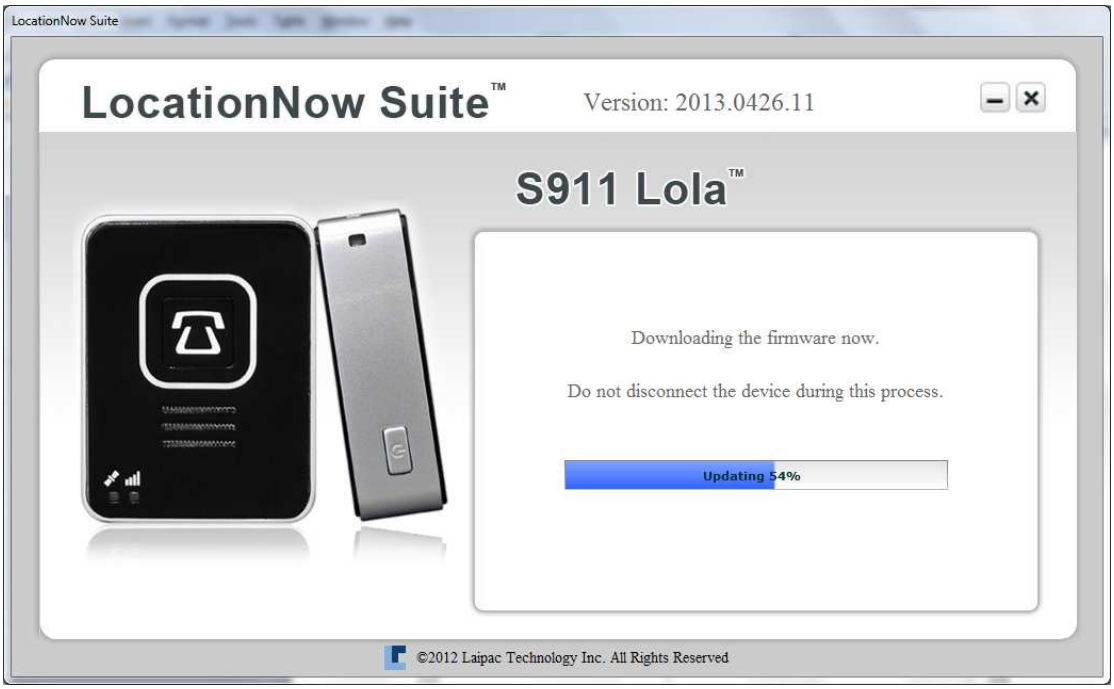
(2) Download the latest LOLA utility software

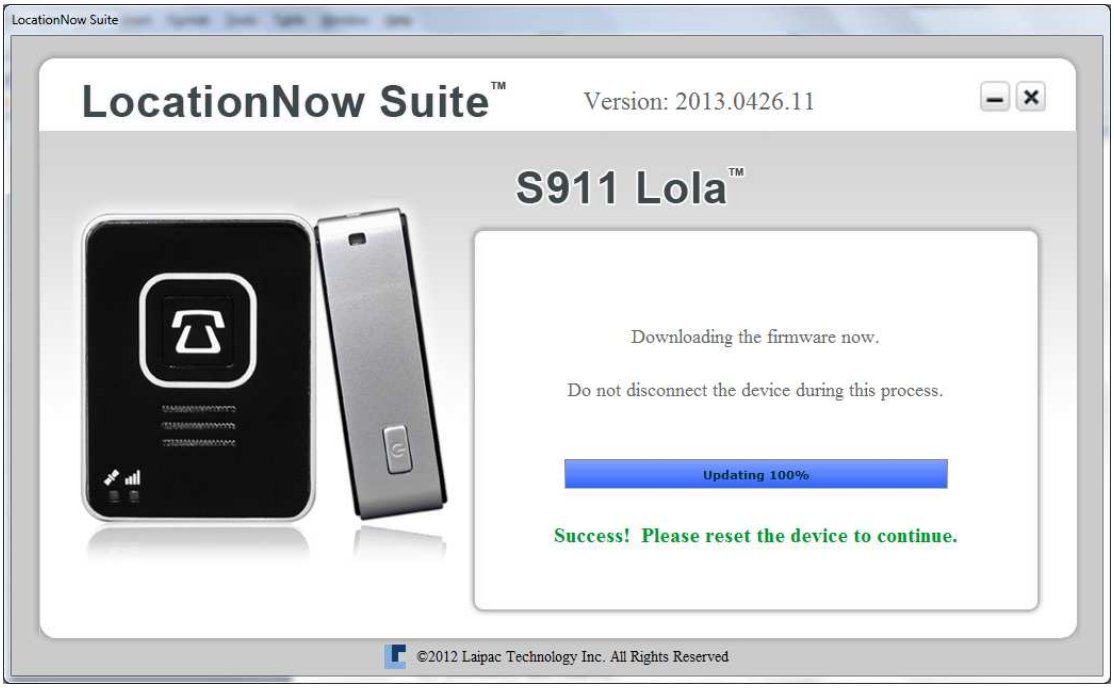
10.2 Update firmware

(1) Complete the installation of this new utility, refer to section 3.3
(2) Run LocationNow Suite utility on PC
(3) Power off unit, then connect it to utility
(4) If unit is connected to utility successfully and it has been detected that this unit does not have the latest new application firmware coming with this utility, a pop-up window will be coming out on user's PC screen. It reminds user that a new application firmware is ready for user to download



If user wants to download this new firmware, he can click “Yes”, utility will start firmware updating process. When this process is completed successfully, user should see the prompt information below “**Success! …”**




LocationNow Suite
LocationNow Suite™
Version: 2013.0426.11
S911 Lola™
Downloading the firmware now.
Do not disconnect the device during this process.
Updating 100%
Success! Please reset the device to continue.
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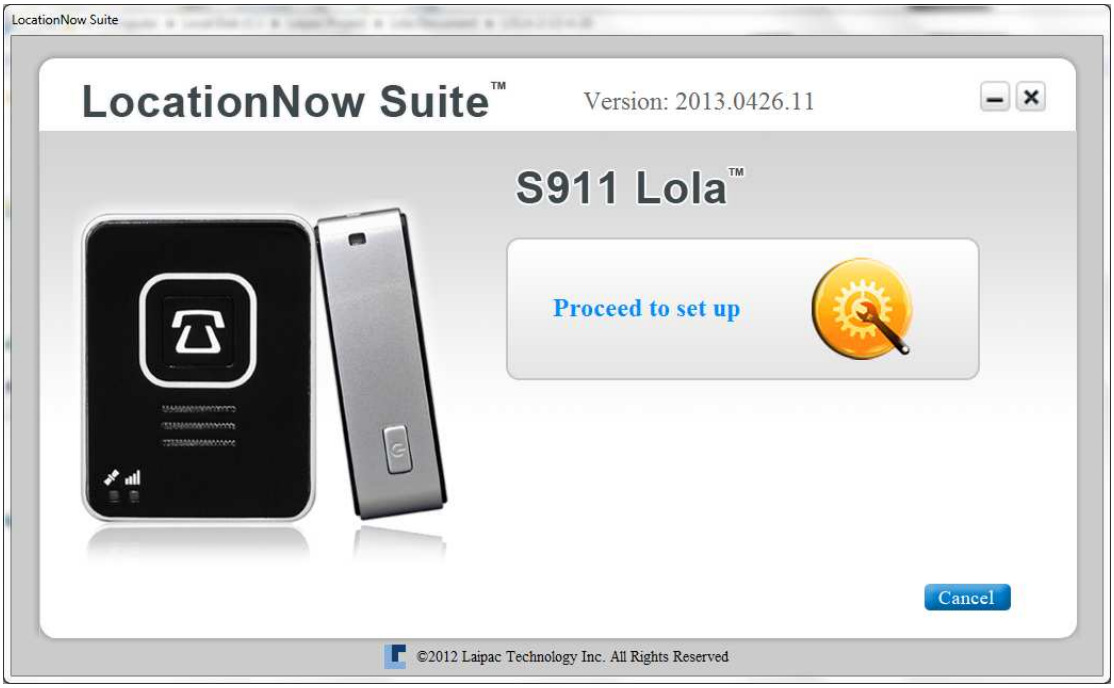
If user wants to do configuration on his Lola now, he should

(1) Disconnect unit with PC
(2) Power off the unit, connect unit with PC through USB cable again
(3) Then utility will bring user to the operation interface below. For configuration of Lola, user can refer to section 5 to 7



Appendix A:

Document No.: 280-AN-001
Document Type: Application Note
Security Level: Open

S911 LOLA's working mode and its usage

Version 1.10

March 21, 2013

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Release History

Revision	Date	Content
1.00	2013/03/21	It is initial release
1.10	2013/04/28	Revise section 2.1

Content

1. Introduction to LOLA's working mode

2. Set up Working Mode
2.1 Set up Working Mode by using LocationNow Suite utility
2.2 Set up Working Mode on LocationNow Service Platform
2.2.1 Enter into operation menu of setting up LOLA's working mode
2.2.2 Retrieve the current working mode of LOLA
2.2.3 Set up Normal or Stand-by Mode
2.2.4 Set up Sleep Mode

3. Know more about Working Mode
3.1 Normal Mode
3.2 Stand-by Mode
3.3 Sleep Mode

4. Power off and Working Mode

1. Introduction to LOLA's working mode

According to the working status of LOLA's major functional parts below
• Central controller
• GSM/GPRS communication channel (GSM/GPRS)
• GPS receiver (GPS)
• Motion sensor (G-sensor)

LOLA can be arranged to work at 3 different kinds of working mode below
• Normal Mode
• Stand-by Mode
• Sleep Mode

Table 1 shows the relation between working status of major functional parts and Working Mode.

The principal intention aims to let LOLA's user have more choice, according to his application, to achieve longer battery time for Lola.

Major functional Parts	Working Mode		
	Normal	Stand-by	Sleep
Central controller	Full speed	Full speed	idle
GSM/GPRS	Full functional or idle	Full functional or idle	Shut down
GPS	Full functional or idle	Shut down	Shut down
G-sensor	Moving Detection enabled Impact Detection enabled	Moving detection enabled Impact detection enabled	Impact detection enabled

Table 1

2. Set up Working Mode

2.1 Set up Working Mode by using LocationNow Suite

Using Locationnow Suite utility software, user can set up LOLA'a working mode. Refer to LOLA operation manual section 7.4.3 **Special Function**

2.2 Set up Working Mode on LocationNow V3 service platform

Through LocationNow-V3 service platform, LOLA's user is able to change his device's working mode

• From Normal to Stand-by
• From Normal to Sleep
• From Stand-by to Normal
• From Stand-by to Sleep

Note:

When LOLA enters into Sleep Mode, user can not access this device from LocationNow-V3 platform since LOLA's GSM/GPRS communication channel has been shut down.

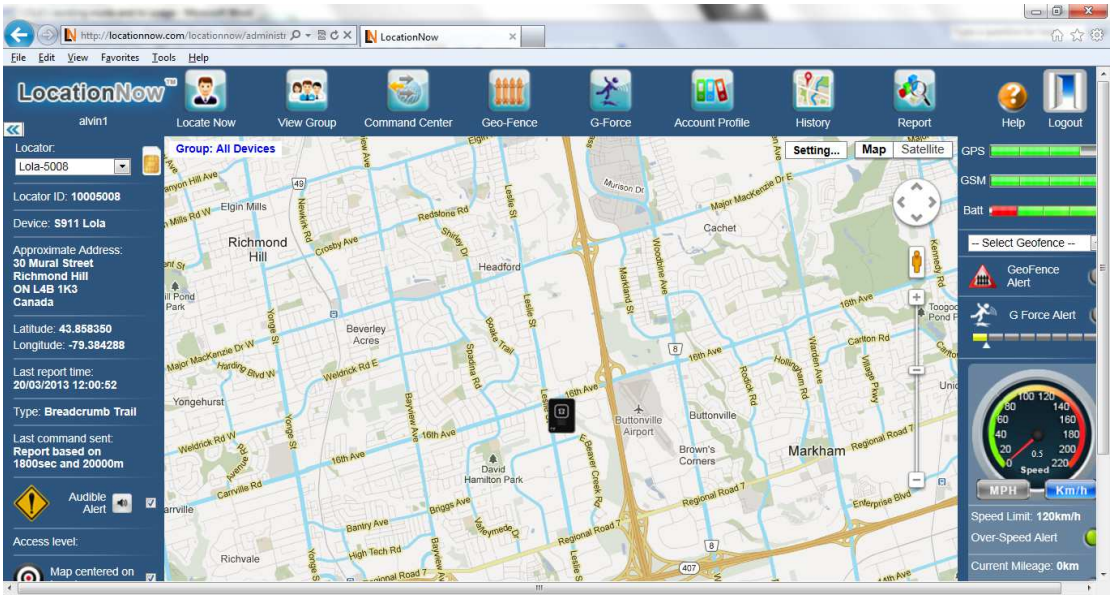
User could press LOLA's "Panic" button and hold for more than 3 seconds, device will return to its Normal Mode. Find detail in section 3.3

2.2.1 Enter into operation menu of setting up LOLA's working mode

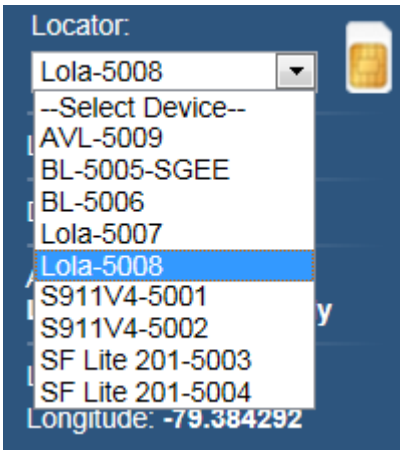
LOLA's user can follow the steps below to re-set up his device's working mode through LocatinNow-V3

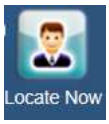
(1) Using LocationNow Suite utility software to configure LOLA to point to LocationNow platform. Refer to LOLA operation manual.

(2) Using authorized User ID and Password to login http://locationNow.com



(3) From **Locator**'s pull-down list, top-left cirner, select his LOLA, such as, here, it is LOLA5008



(4) Click 

button to communicate with his LOLA. If user can see

(a) On bottom-left corner, it shows

(b) On top-right corner, it shows

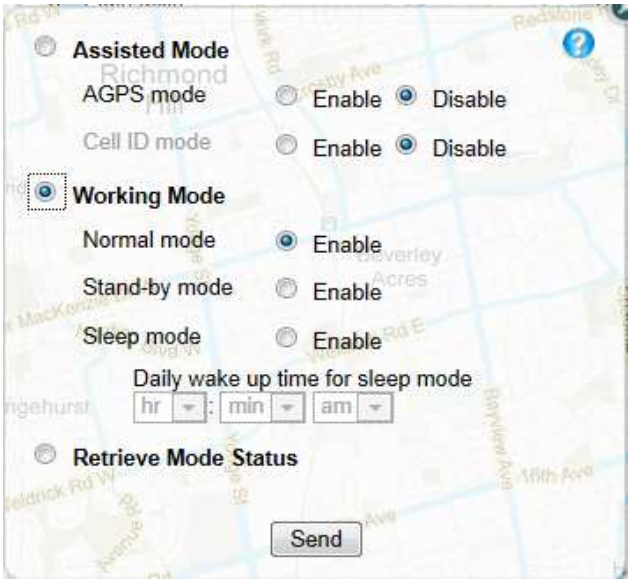
It means LocationNow-V3 has communicated with LOLA successfully

If LocationNow-V3 is not able to communicate with LOLA successfully, user should check his device's configuration and ensure his LOLA is not in **Sleep Mode**.

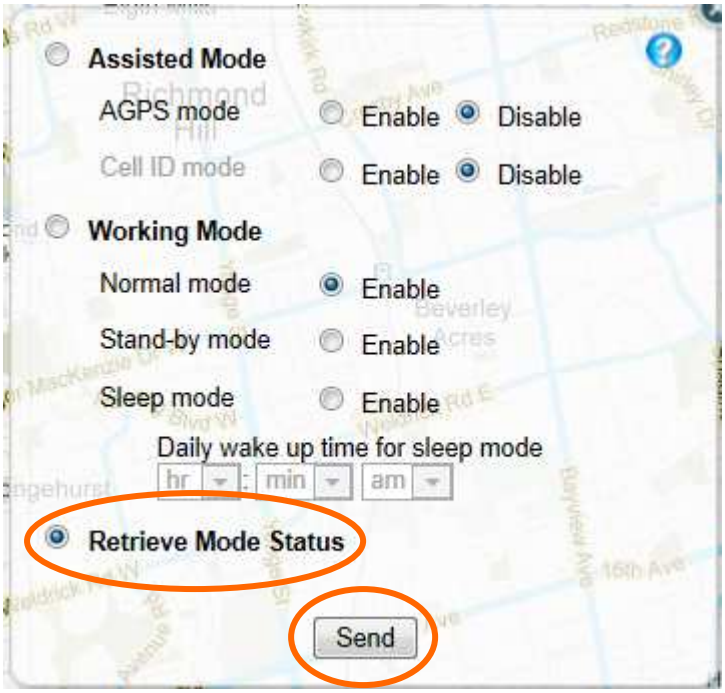
(5) Click

button and select "System Config", as shown below

(6) Now user has been guided to the operation menu for setting up LOLA's working mode

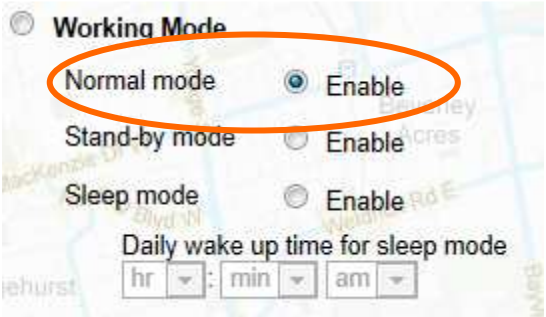


2.2.2 Retrieve the current working mode of LOLA



(1) Select "**Retrieve Mode Status**"
(2) Click "**Send**"
(3) If On bottom-left corner, it shows

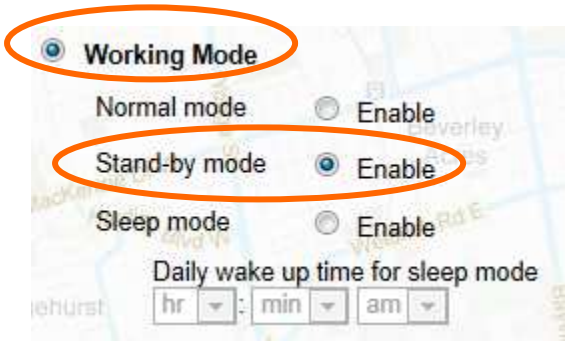
(4) Find the current working status, read back from LOLA, in "**Working Mode**" area, for example, it is Normal Mode being used by LOLA-5008 here.



2.2.3 Set up Normal or Stand-by Mode

The set-up process for “Normal Mode” or “Stand-by Mode” is almost same, the description below is for setting up “Stand-by Mode”.

(1) Select “Working Mode”
(2) Select the mode user wants to set. Such as, here, user wants to change LOLA-5008’s working mode, from “Normal mode” to “Stand-by mode”

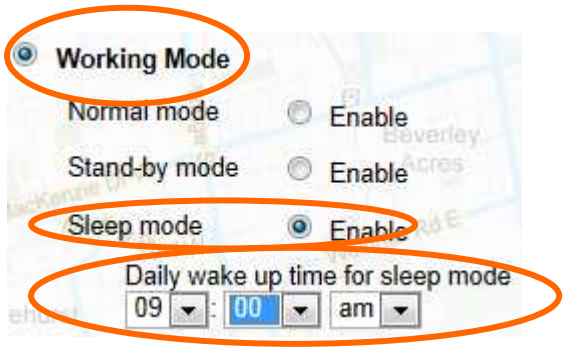


(3) Click “**Send**”. If on bottom-left corner, it shows

It means this new working mode has been set up on LOLA-5008 successfully

(5) Refer to section 2.2.1, user can verify if “Stand-by Mode” has been set up on his LOLA.

2.2.4 Set up Sleep Mode



(1) Select “Working Mode”
(2) Here, user wants to change LOLA-5008’s working mode, from “Stand-by mode” to “Sleep Mode”
(3) Set up the “Daily wake up time for sleep mode”
Refer to section 3.3 for detail of this setting. Here, it is set to 9:00 am.
(4) Click “**Send**”. If on bottom-left corner, it shows

It means this new working mode has been set up on LOLA-5008 successfully

(5) User is not able to verify if LOLA has entered into Sleep Mode by sending “**Retrieve Mode Status**” command

3. Know more about Working Mode

3.1 Normal Mode

Generally speaking, when LOLA is under Normal Mode, it is full functional. Table 3.1 lists its major function under this mode. The description of LOLA`s behavior under Normal Mode, user can find its detail in LOLA`s operation manual.

Major Function Parts		LOLA`s major function under Normal Mode
Part Name	**Working status**	
Central controller	Full speed	1. Uploading its position by time an distance interval to remote server 2. All alert function is able to be enabled. When alert generates, uploading alert message to remote server or SMS device. Especially, • Multi-geofence • Impact • Panic • Low Battery 3. Without movement, GPS will enter into idle 4. Allow make SOS or receive phone call 5. Server can configure or control it remotely
GSM/GPRS	Full functional or idle	
GPS	Full functional or idle	
G-sensor	Moving Detection enabled Impact Detection enabled	

Table 3.1

3.2 Stand-by Mode

Major Function Parts		LOLA`s major function under Stand-by Mode
Part Name	**Working status**	
Central controller	Full speed	1. When following alerts generate, uploading alert message to remote server or SMS device, • Impact • Panic button • Low Battery 2. Server can configure or control LOLA remotely 3. Allow make SOS or receive phone call 4. When LOLA is under Stand-by Mode, press Panic button and hold over 3s, device will generate a SOS alert action sequence and change to Normal Mode 5. GSM LED blinks 2 times with interval of 10 seconds.
GSM/GPRS	Full functional or idle	
GPS	Shut down, but activated when •Impact alert •Panic button alert	
G-sensor	Moving Detection enabled Impact detection enabled	

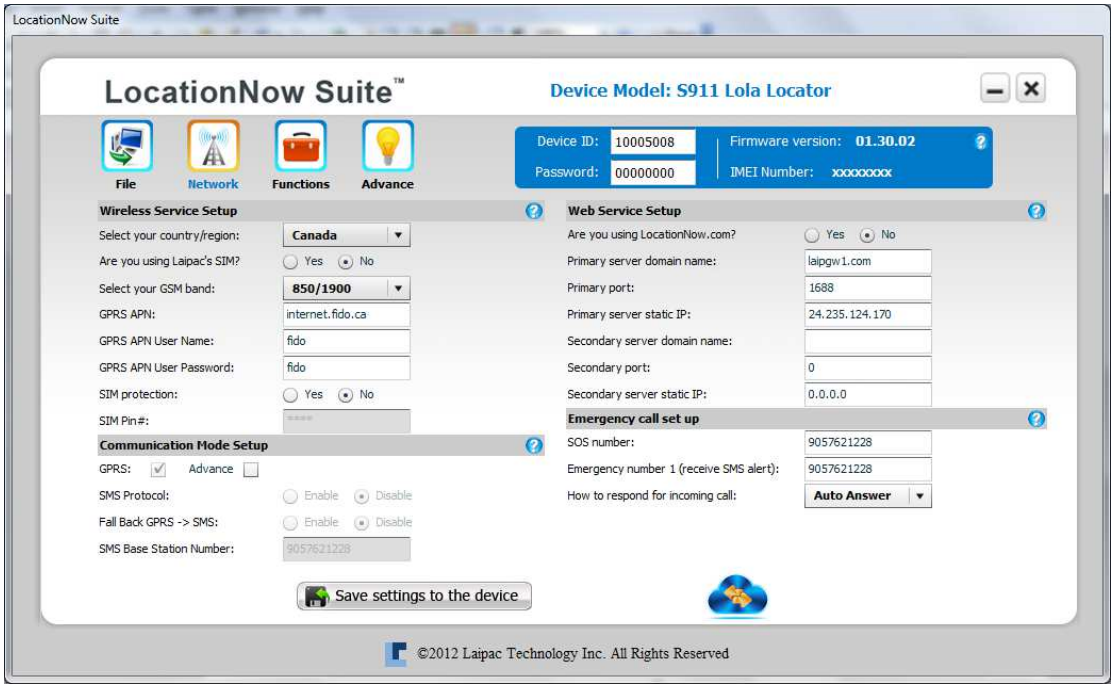
Table 3.2

Note:

When LOLA is under Stand-by Mode, press Panic button and hold over 3seconds, device will generate a SOS alert action sequence below and change its working mode to Normal Mode

(1) Send SOS alert message to remote server, such as, LocationNow service platform
(2) Send a SMS message to phone with Emergency No. 1
(3) Dial the phone with SOS number
(4) Turn on GPS
(5) During 15 min, if device's position is able to be fixed by GPS, LOLA will send the second Panic alert message to remote server and SMS device with valid position.
(6) GPS LED will flash **once** with interval of **10** seconds.

For setting up process of remote server, Emergency No.1 and SOS number by means of LocationNow Suite utility, user can find the detail in LOLA Operation Manual.



3.3 Sleep Mode

Major Function Parts		LOLA`s major function under Sleep Mode
Part Name	**Working status**	
Central controller	idle	1. When following alerts generate, uploading alert message to remote server or SMS device, •Impact •Panic button 2. Allow make SOS phone call 3. Every 12 hours, LOLA will be waked up. LOLA will • Turn on both GPS and GSM/GPRS communication channel and develop connection to server • Send a message to server • During 15 min, if device's position is able to be fixed by GPS, LOLA will send the second message with valid position to server 4. During wake-up, GPS LED should blink 2 times with interval of 10 seconds. 5. When LOLA is under Sleep Mode, press Panic button and hold over 3s, device will generate a SOS alert action sequence and change to Normal Mode
GSM/GPRS	Shut down, but activated when •Impact alert •Panic button alert	
GPS	Shut down, but activated when •Impact alert •Panic button alert	
G-sensor	Impact detection enabled	

Table 3.3

Note:

When LOLA is under Sleep Mode, press Panic button and hold over 3seconds, device will generate a SOS alert action sequence below and change its working mode to Normal Mode

(1) Turn on GSM/GPRS communication channel and develop connection with remote server
(2) Send SOS alert message to remote server, such as, LocationNow service platform
(3) Send a SMS message to phone with Emergency No. 1
(4) Dial the phone with SOS number
(5) Turn on GPS
(6) During 15 min, if device's position is able to be fixed by GPS, LOLA will send the second Panic alert message to remote server and SMS device with valid position.
(7) GPS LED will flash **once** with interval of **10** seconds.

For setting up process of remote server, Emergency No.1 and SOS number by means of LocationNow Suite utility, user can find the detail in LOLA Operation Manual.

6. Power off and Working Mode

(1) Under any working mode, press Power On/OFF button, LOLA will be shut down

(2) Depending on the working mode before LOLA was shut down, when user presses Power On/OFF button to turn on his device, LOLA will be awaken and return **its previous working mode**.